

PET/US05/00146

- 10 -

CLAIMS:

What is claimed is:

1. A powered saw comprising:
 - a frame including at least two spaced arms extending from a
 - 5 handle;
 - at least two blade guides attached to the frame;
 - a blade positioned in a coplanar relationship with the frame along
 - the blade guides, the blade including a cutting surface extending
 - between the arms of the frame;
 - 10 a motor operatively connected to the blade; and
 - a power supply operatively connected to the motor.
2. The powered saw of claim 1, further comprising:
 - a tension device attached to the frame and engaged with the
 - blade for increasing and decreasing the tension on the blade.
- 15 3. The powered saw of claim 2, wherein the tension device comprises:
 - tension rollers adjustably mounted to the frame;
 - an adjustment screw operatively connected to the tension rollers;
 - and
 - 20 an adjustment nut that is adjusted along the adjustment screw to
 - increase and decrease the distance between the tension rollers and
 - increase and decrease the tension of the blade.
4. The powered saw of claim 1, further comprising:
 - a gear system for transferring power from the motor to the blade.

PCT/US05/00146

- 11 -

5. The powered saw of claim 4 wherein the gear system comprises:

a bevel gear attached to a drive shaft of the motor;

a driven gear engaged with the bevel gear and engaged with the
5 blade.

6. The powered saw of claim 1, further comprising:

a switch operatively connected to the motor that allows the operator to vary the speed of the motor.

7. The powered saw of claim 1, further comprising:

10 a cover attached to the frame surrounding the gear system; and
guards attached to the arms of the frame.

8. The powered saw of claim 1, wherein cutting surface of the blade is normal to the longitudinal axis of the handle.

9. The powered saw of claim 1, further comprising:

15 bending rollers attached to the frame that rotate the angle of the cutting surface relative to the rest of the blade.

10. The powered saw of claim 9, wherein the bending rollers rotate the cutting surface 90° relative to the rest of the blade.

11. The powered saw of claim 1, further comprising:

20 material guides pivotally attached to the frame that pivot from an open to a closed position.

12. The powered saw of claim 1, wherein the arms are adjustable in length so that the angle of the cutting surface relative to the longitudinal axis of the handle may be adjusted.

PCT/US05/00146

- 12 -

13. The powered saw of claim 1, wherein the arms are pivotally attached to the handle so that the cutting surface may be rotated about the longitudinal axis of the handle.

14. A powered saw comprising:

5 a housing defining a handle, the housing having a longitudinal axis;

a frame including a pair of arms extending outwardly from the handle, the arms defining a open throat;

at least two blade guides attached to the frame;

10 a blade positioned in a coplanar relationship with the frame along the blade guides, the blade including a cutting surface extending between the arms of the frame along the throat and generally normal to the axis of the handle; and

a drive source mounted in the housing, the drive source being
15 operatively connected to the blade.

15. The powered saw of claim 14, further comprising:

a tension device attached to the frame and engaged with the blade for increasing and decreasing the tension on the blade.

16. The powered coping saw of claim 14, further comprising:

20 a gear system for transferring power from the drive source to the blade.

17. The powered saw of claim 14, further including a power source mounted in the housing and operatively connected to the drive source.

PCT/US05/00146

- 13 -

18. The powered saw of claim 14, further comprising:
bending rollers attached to the frame that rotate the angle of the
cutting surface relative to the rest of the blade.

19. The powered saw of claim 14, further comprising:
5 material guides pivotally attached to the frame that pivot from an
open to a closed position.

20. The powered saw of claim 14, wherein the arms are
adjustable in length so that the angle of the cutting surface relative to
the longitudinal axis of the handle may be adjusted.

10 21. The powered saw of claim 14, wherein the arms are
pivotally attached to the handle so that the cutting surface may be
rotated about the longitudinal axis of the handle.

22. A powered coping saw comprising:
a handle having a longitudinal axis;
15 a frame including at least two arms extending axially outwardly
from the handle;

at least two blade guides attached to the frame;
a blade positioned along the blade guides, the blade including a
cutting surface extending between the arms of the frame so that the
20 cutting surface is normal to the longitudinal axis of the handle;

a motor operatively connected to the blade; and
a power supply operatively connected to the motor.

23. The powered coping saw of claim 22, further comprising:

- 14 -

a tension device attached to the frame and engaged with the blade for increasing and decreasing the tension on the blade.

24. The powered coping saw of claim 22, further comprising:
a gear system for transferring power from the motor to the blade.

5 25. The powered coping saw of claim 22, further comprising:
bending rollers attached to the frame that rotate the angle of the cutting surface relative to the rest of the blade.

26. The powered coping saw of claim 22, further comprising:
material guides pivotally attached to the frame that pivot from an
10 open to a closed position.

27. The powered coping saw of claim 22, wherein the arms are adjustable in length so that the angle of the cutting surface relative to the longitudinal axis of the handle may be adjusted.

28. The powered coping saw of claim 22, wherein the arms
15 are pivotally attached to the handle so that the cutting surface may be rotated about the longitudinal axis of the handle.

29. The powered coping saw of claim 22, wherein the frame is Y-shaped.